

## GENERAL INFORMATION

### Try the Commerce Website:

<http://www.commerce.wi.gov>

(Scroll down left, Click Safety & Buildings Div.)

Conveniently obtain for view or print:

- Staff Contact Information
- Specific Programs, "Boilers"
- Code Copies, "Chapter Comm 41"
- Inspector District Maps
- Division Forms, "SBD-6314 or SBD-5204"
- Credential Applications
- Individual Credential Status
- Regulated Object data



## CODE SECTION HIGHLIGHTS

### Comm 40 – Gas Systems Code

#### PLAN REVIEW REQUIRED

- \*Liquid Petroleum Gas
  - Containers 2000 gallons and larger
  - Aggregate 4000 gallons and larger
- \*Compressed Natural Gas
  - No size limitations
- \*Liquid Natural Gas
  - Containers 2000 gallons and larger
- \*Adopted Standards
  - NFPA 58 – LPG
  - NFPA 52 – CNG
  - NFPA 59A – LNG
  - ANSI/ASME B31.3 – Piping

#### SUBMIT PLANS & APPLICATION FORM

- \*SBD-6038 – Install application and plans
  - Scaled plans ..... see Comm 40.10
  - Indicate roads and property lines

SBD-7833 (R01-2010)

Foundation – pier, bulkhead, supports  
Piping schematic w/materials  
Vessel information – provide  
Manufacturers Data Report (MDR)  
Surface area of tank  
Pressure relief set/capacity

- \*Site Inspection necessary after plan approval
- Contact District Inspector

### Comm 41 – Boiler & Pressure Vessels

#### INSTALLATION REGISTRATION REQUIRED

- \*SBD-6314 / Boiler & Pressure Vessel Form
  - By installing contractor ... no fee

#### PERMIT TO OPERATE "PTO" REQUIRED

- \*Power Boilers ..... Annual
  - Internally inspected
- \*Heating Boilers ..... Every 3 yrs
  - Steam or hot water boilers
  - Internally or externally inspected
- \*Pressure Vessels
  - Air tanks (  $\geq 12$  cu ft) ..... Every 3 yrs
  - Other tanks (  $> 5$  cu ft) ..... Every 3 yrs
  - Externally inspected

Note: See Comm 41.18, Exemptions from inspection

- \*SBD-5204 / Power piping form
  - Steam pipe systems over 15 PSIG

Note: SBD-5204 form shall be completed and made available to the certified inspector at the time of inspection. Fee by hour/2 hour minimum. Inspection is required for power piping over 2" NPS / exceeding 50 feet in length.

#### WELDED REPAIR / ALTERATIONS

Repair and alterations to boilers and pressure vessels must be completed in accordance with the National Board Inspection Code (NBIC) by a valid National Board "R" stamp holder. All repairs and alterations including "routine repairs" shall be registered on the appropriate form with the National Board per Comm 41.62.

## DEFINITIONS

- \*Certified Inspector – person who holds a valid credential issued by the department under ch Comm 5 as a certified boiler-pressure vessel inspector
- \*External Inspection – an inspection made while the boiler or pressure vessel is in operation
- \*Internal Inspection – an inspection made when the boiler or pressure vessel is shut down and hand hole and manholes or other openings are opened or removed for inspection of the interior as required by the inspector
- \*Power Piping – steam piping in excess of 15 psig or hot water piping in excess of 250 degrees F beyond the scope of boiler external piping
- \*Power piping standard is ANSI/ASME B 31.1 adopted in Comm 41 for the design and installation of power piping. Purchase from ASME @ 1-800-843-2763.

## NATIONAL BOARD COMMISSION EXAMS

- \*Commission exams can be scheduled the first Wednesday and half day Thursday of March, June, September and December, Fee per Comm 2.11(8).
- \*Contact Waukesha office for details.

### Comm 43 – Anhydrous Ammonia

#### PLAN REVIEW REQUIRED

- \*Anhydrous Ammonia Storage
  - No size limitations
- \*Adopted Standards
  - ANSI / K 61.1 – NH<sub>3</sub>
  - ANSI / ASME B31.3 - Piping

#### SUBMIT PLANS & APPLICATION FORM

- \*SBD-6038 – Installation application
  - Scaled plans ..... see Comm 43.10
  - Indicate roads and property lines
  - Foundation – pier, bulkhead, supports
  - Piping schematic w/materials
  - Vessel information – provide MDR

- Surface area of tank
- Pressure relief set/capacity
- \*Site inspection necessary after plan approval
- Contact District Inspector

#### PERMIT TO OPERATE REQUIRED

- \*Anhydrous ammonia storage ..... every 3 yrs.  
External inspection performed
- \*Nurse tank inspection ..... every 3 yrs.  
External inspection performed

#### Comm 45 – Mechanical Refrigeration

#### INSTALLATION REGISTRATION REQUIRED

- \*SBD-34 / Mechanical refrigeration form
- \*SBD-5204 / Welded refrigeration piping form  
Both by installing contractor ... no fee

Note: No fee for registration submittal but fees are levied for mandatory inspections per Chapt. Comm 2.

#### PERMIT TO OPERATE “PTO” REQUIRED

- \*Toxic-flammable refrigerant systems  
10 ton and above ... annual inspection
- \*Regular refrigerant systems  
50 Ton & above ... inspect every 3 yrs
- \*Equipment externally inspected

Note: Single family and duplex installations are exempt from PTO requirements but contact your local authority for permit or inspection requirements in your area.

#### HVAC CONTRACTOR REGISTRATION & REFRIGERANT HANDLING REQUIRED

- \*HVAC Contractor is a “Business registration”  
Initial Application ..... \$15.00  
Registration/Renewal \$160.00 / 4 years
- \*Refrigerant handling technician card  
Registration/Renewal...\$20.00 / 4 years  
+ Proof of EPA Technician Certification
- \*Comm Chapter 5 for specific credential details
- \*Contact **Credential office @ 1-608-261-8500**

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Note: Copy of EPA Section 608 certification may be required with application for state issuance of refrigerant handling technician “RHT” card. Federal EPA rules apply for ozone-depleting refrigerant recovery, recycling and reclaiming. Questions on Federal rules – Contact **EPA HOT LINE 1-800-296-1996**

#### STRUCTURAL STEEL WELDING

- \*Welders of structural steel shall be qualified in accordance with AWS D1.1 or D1.3 Standard
- \*Structural steel weld test conductors are required to pass a written WI exam before conducting structural steel weld tests.  
Exam \$20.00, certification \$80.00  
Renewal ..... every 4 years

Note: A list of WI certified weld test conductors is provided on the welder’s application form.

- \*For WI structural steel welder qualification:
  1. Obtain a structural welder application
  2. Consult with a WI weld test conductor
  3. Perform weldment of test coupon
  4. Upon satisfactory test results
  5. Return application with \$35.00 Fee
  6. Welder re-test/renewal every 4 years

- \*Structural Welding questions:  
Contact Mike Verhagen, 262-548-8617
- \*Applications, examination or renewals  
Contact Credentials .. **608-261-8500**

#### PLAN SUBMITTALS / ASSISTANCE

To: Commerce – Safety & Buildings  
141 NW Barstow St, 4<sup>th</sup> Floor  
Waukesha WI 53188

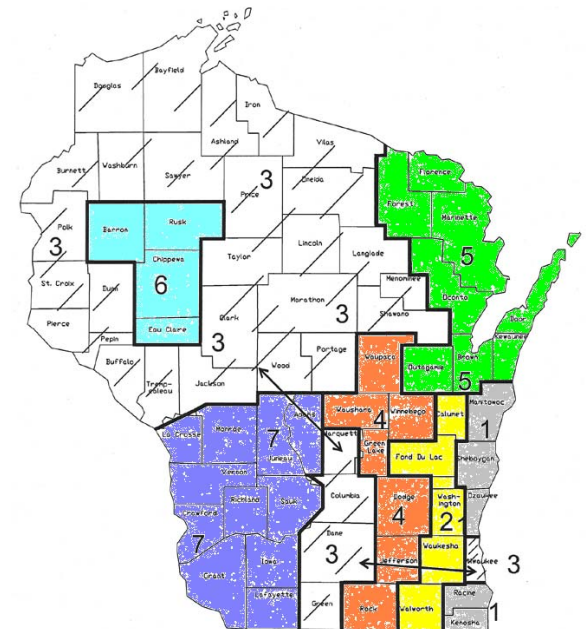
Contact: Mike Verhagen  
Telephone 262-548-8617  
Fax 262-548-8614  
Email mike.verhagen@wi.gov

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## BOILER PRESSURE VESSELS

Safety & Buildings Division  
201 W Washington Avenue 4<sup>th</sup> Floor  
Madison WI 53703



#### Inspection Districts

<u>District 1</u> David Homan 262-424-1471	<u>District 2</u> Terence Waldbillig 414-303-8575	<u>District 3-Includes</u> <u>Milwaukee County</u> Damarc-S 866-361-4321
<u>District 4</u> Jon Wolf 920-723-0032	<u>District 5</u> James Markiewicz 920-428-9423	<u>District 6</u> Duane Leetch 715-559-8817
<u>Waukesha Office</u> Michael Verhagen Plan Review 262-548-8617 Fax-548-8614	<u>District 7</u> Dean Yourchuck 608-235-0607	Rick Merkle <u>Supervisor</u> 262-521-5065 Fax-608-283-7415